

PRECISION ENVIRONMENTAL SERVICES, INC.

BULK ANALYSIS REPORT

Page #: 2 of 2

Client: Alaska Copper Works

Report #: 1196008

Project: 80 Hudson Garden Shop

Report Date: 11-04-96

PROJ.#: M55108

Date Analyzed: 11-04-96

Client/Lab Number	Sample Location & Description	Asbestos Type / %	Other Material
M55108A 1196008	Light brown, pliable floor tile with clear, tacky mastic	None detected.	cellulose (<1%) mineral aggregate vinyl, adhesive
M55108B 1196009	Black, tar roofing shingle material with gray gravel layer and fibers	None detected.	cellulose (<1%) fiberglass (10- 15%) tar, mineral aggregate

PRECISION
ENVIRONMENTAL
SERVICES, INC.

NVLAP Accredited
LAB #1631
PAT #11567

BULK SAMPLE ANALYSIS REPORT

CLIENT: Alaska Copper Works
628 Hanford St.
Seattle, WA 98134

REPORT #: 1196008
REPORT DATE: 11-04-96

PROJECT: 80 Hudson Garden Shop
PROJ.#: M55108

DATE RECEIVED: 11-01-96

DATE ANALYZED: 11-04-96

PAGE: 1 of 2

Attached are the results of analysis of 2 bulk samples submitted for asbestos identification, Lab ID #1196008 through #1196009.

Samples were analyzed in accordance with method EPA-600/M4-82-020: "Interim Method for the Determination of Asbestos in Bulk Samples".

Each sample was initially examined under a Nikon SMZ - 2T stereoscopic microscope at a magnification of 10X to 60X. Fibrous material was examined for morphology and content.

Representative fibers from each sample were immersed in a fluid with a known refractive index. The specimens were examined under polarized light using a Nikon Labophot microscope with a McCrone Dispersion Staining objective under 100X magnification. Optical characteristics of the fibrous material were examined to determine the mineralogy of the fiber. The observed optical characteristics include angles of extinction, sign of elongation and refractive indices.

Separate layers of inhomogeneous samples are analyzed and reported separately. Unless otherwise stated, samples were quantified by calibrated visual estimation (CVES).

The samples analyzed in this report were provided by third parties not subject to control by PRECISION ENVIRONMENTAL SERVICES (PES). Consequently, the results presented represent microscopic examinations in PES laboratory facilities and PES makes no representation as to sample collection techniques or procedures. Test results pertain only to the samples submitted for analysis.

This report can not be represented by the client to claim product endorsement by NVLAP or any agency of the U.S. Government.

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Analyst - William F. Golloway

Samples Collected by - Third party.

Reports Reviewed by - 
(Approved Signatory)

PRECISION ENVIRONMENTAL SERVICES, INC.

CHAIN OF CUSTODY

Save Samples*? Yes _____ No _____

LAB ID #: 1196008

SAMPLES SUBMITTED BY:

Company name: Alaskan Copper Works

Address: 628 Hanson St

City, State, Zip: Seattle WA 98134

Phone: (206) 382-8379 Fax: (206) 382-4309

Contact: GERARD Thompson

Job Name: 80 Hudson Garden Shack

Job Number: M55108

SAMPLE
NUMBER

SAMPLE
DESCRIPTION

M55108 A Tile Squares

M55108 B Roofing Shingles

SAMPLE TYPE

ANALYSIS REQUESTED

AIR _____

Phase Contrast Microscopy _____

BULK X

Polarized Light Microscopy _____

Other _____

TURN AROUND TIME

RUSH _____

24 HOUR X

3-5 WORKING DAYS _____

OTHER (SPECIFY DATE) _____

RELINQUISHED BY: [Signature]

DATE: 10/1/96

TIME: 10:20

RECEIVED BY: [Signature]

DATE: 11-1-96

TIME: 10:20

* NOTE: UNLESS OTHERWISE REQUESTED SAMPLES WILL BE ARCHIVED FOR 90 DAYS.

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